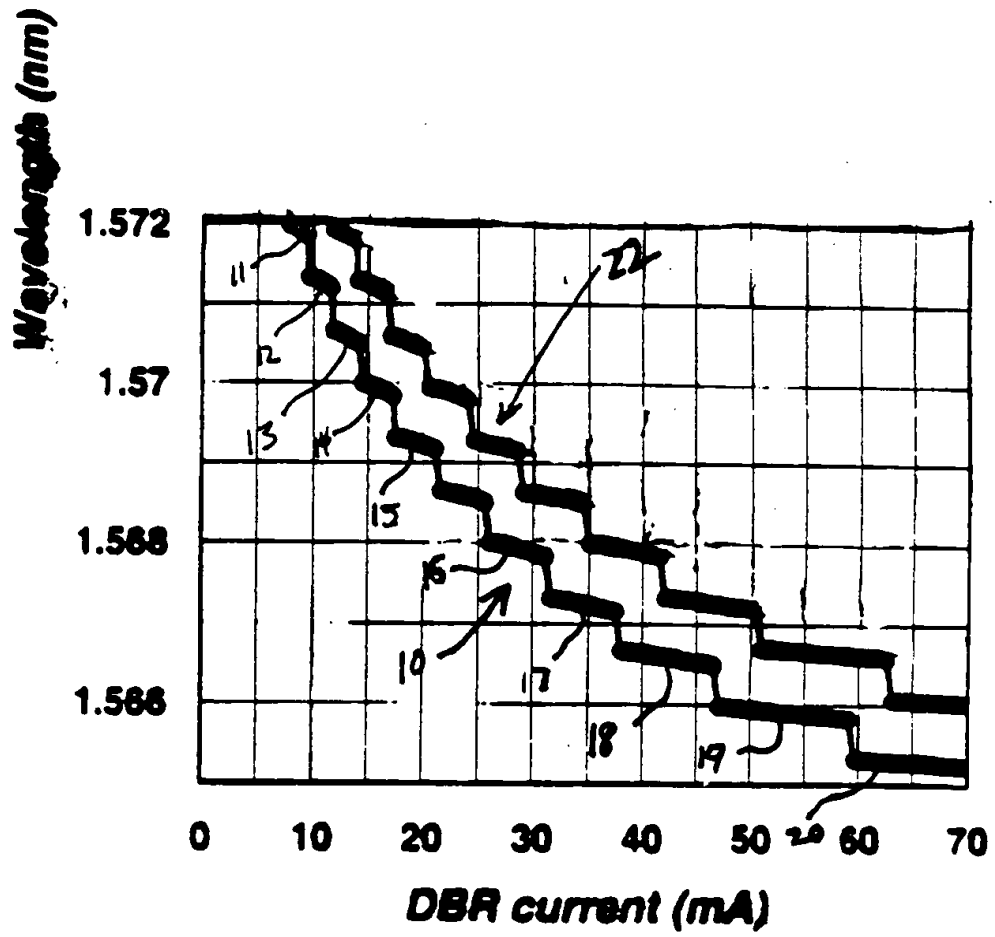


FIG. 1 (prior art)



002263" 54939360

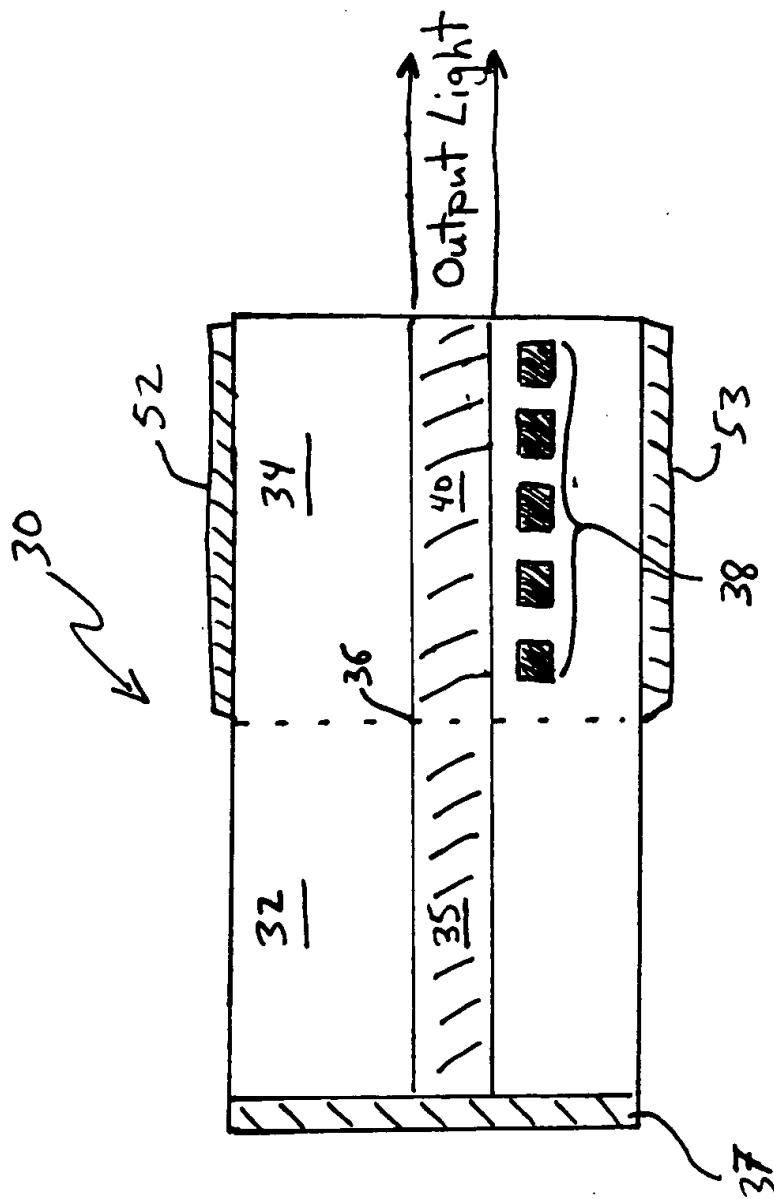
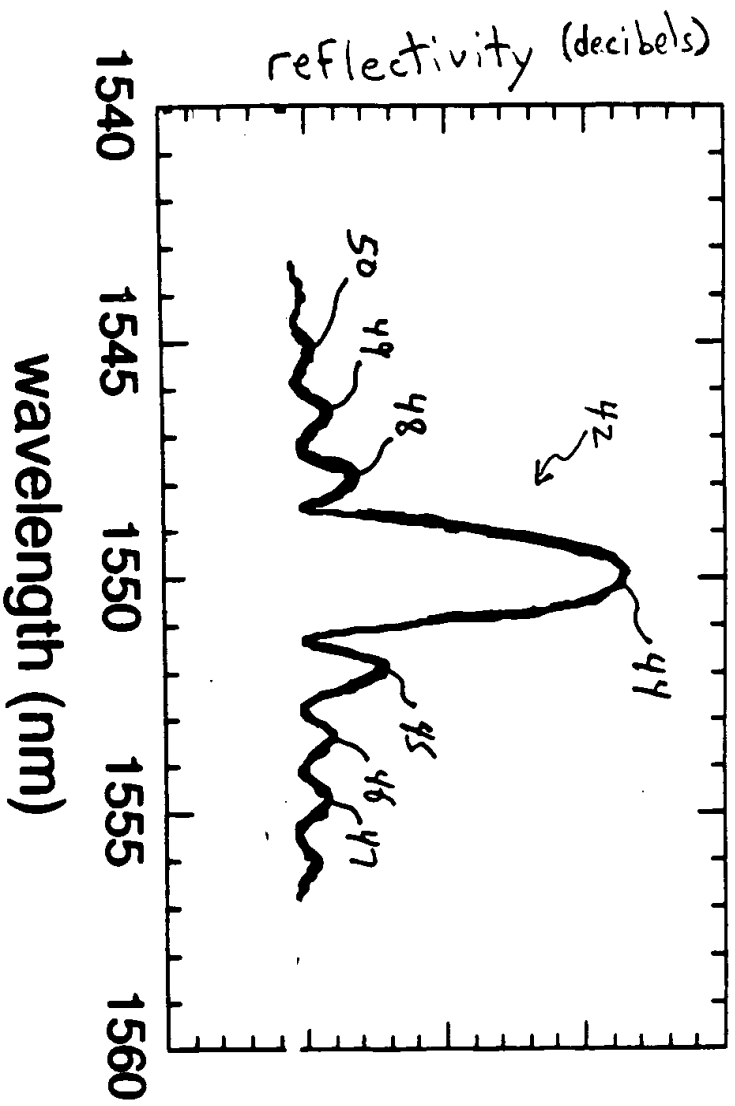


FIG. 2

F16.3



09669676.092200

0066575.09200

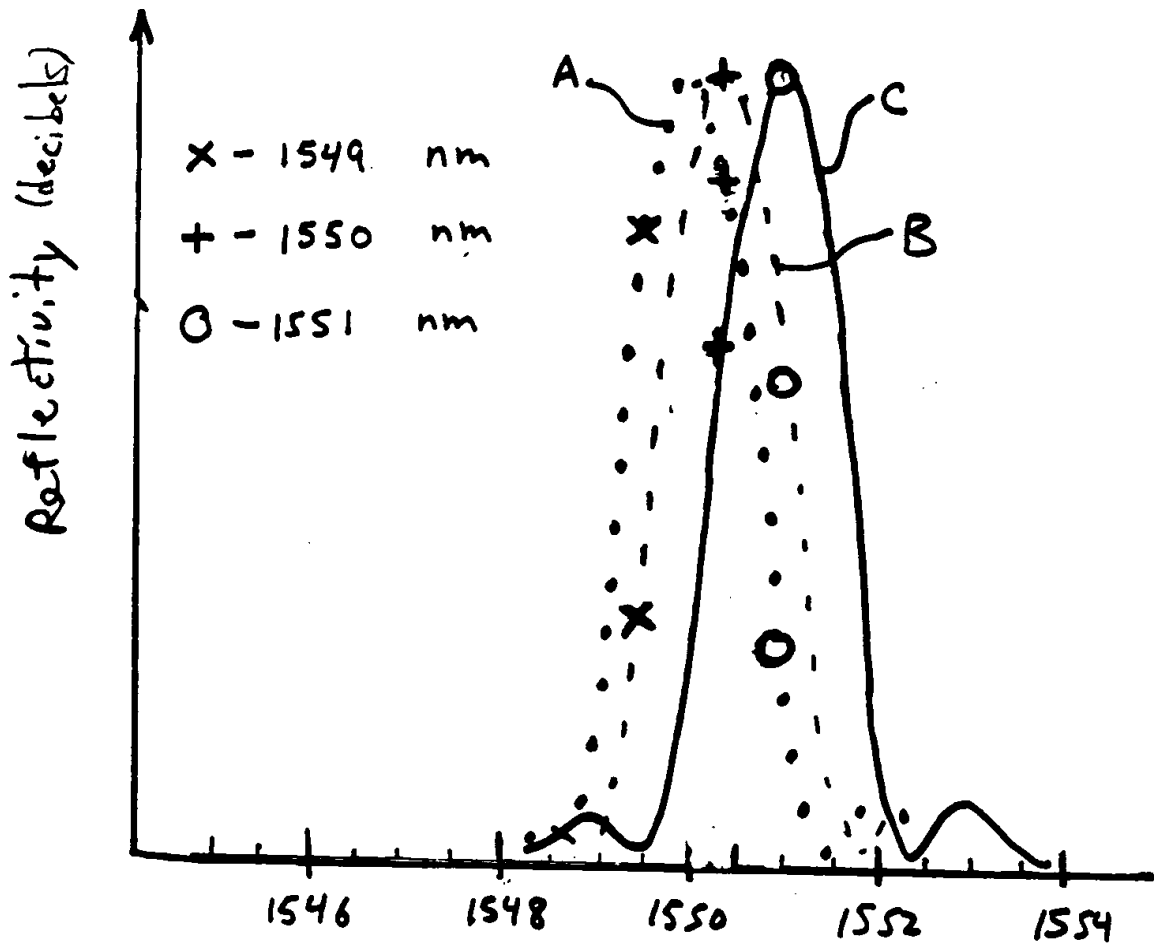


FIG. 4

002260" 52535560

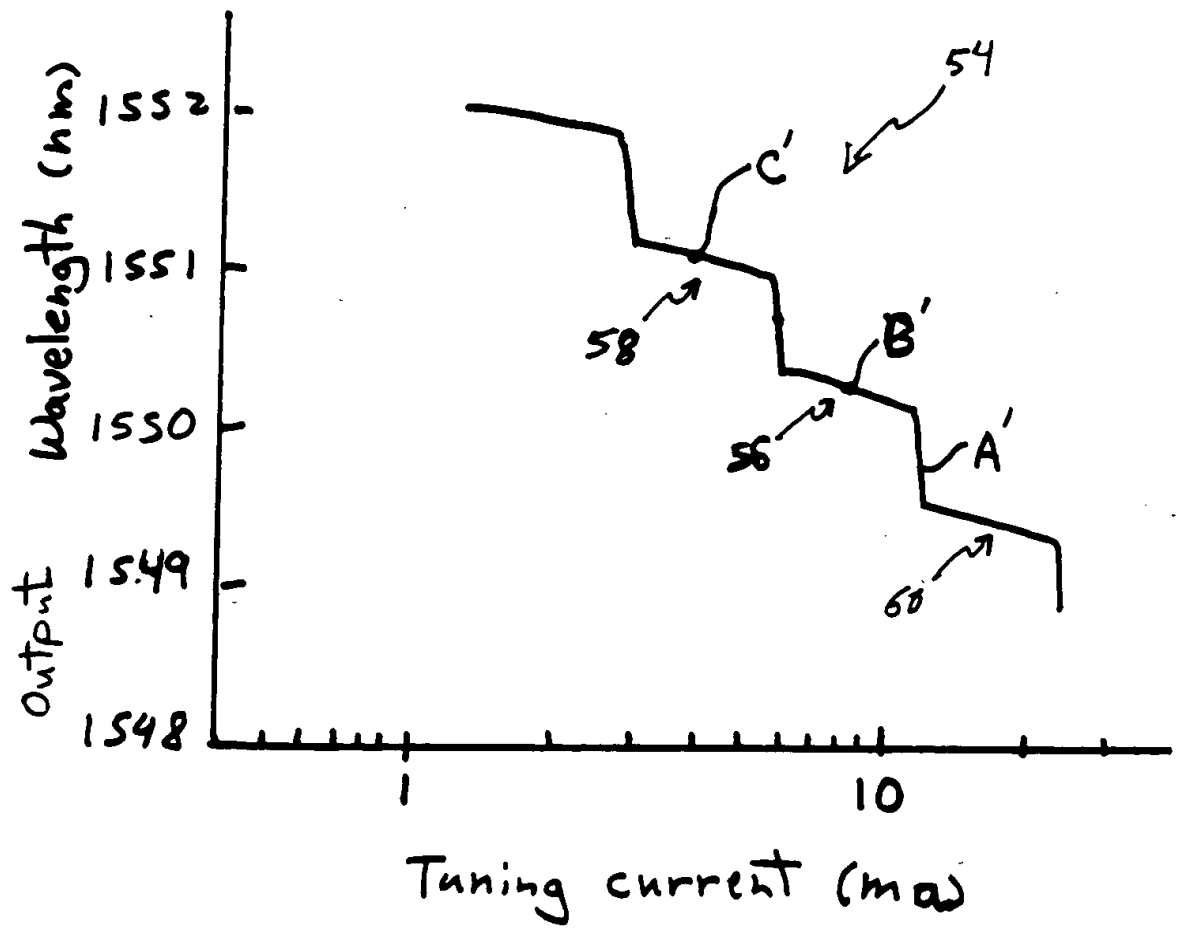


FIG.5

```

graph TD
    L72[Determine relation of output wavelength to tuning current] --> L74[Determine relation of Bragg wavelength to tuning current]
    L74 --> L76[Age DBR laser]
    L74 --> L78[Determine post-aging relation of Bragg wavelength to tuning current]
    L76 --> L78
    L78 --> L80[Find relation between pre- and post-aging tuning currents corresponding to same Bragg wavelengths]
    L80 --> L82[Select output wavelength]
    L82 --> L84[Find pre-aging tuning current that produced selected output wavelength]
    L84 --> L86[Apply tuning current to DBR laser that equals a post-aging value corresponding to found pre-aging current under the found relation between pre- and post-aging tuning currents]

```

70

002260" 52989900

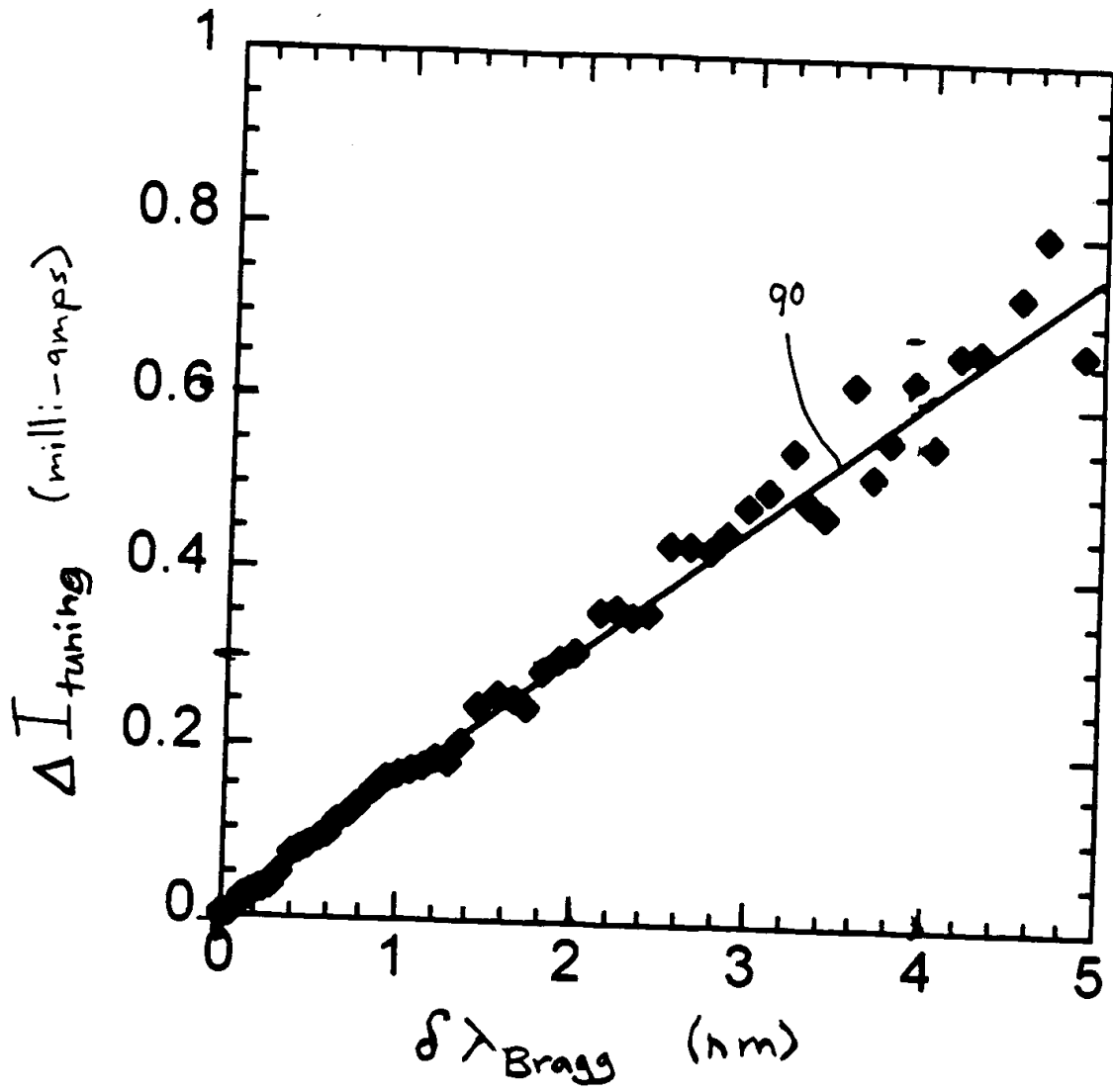
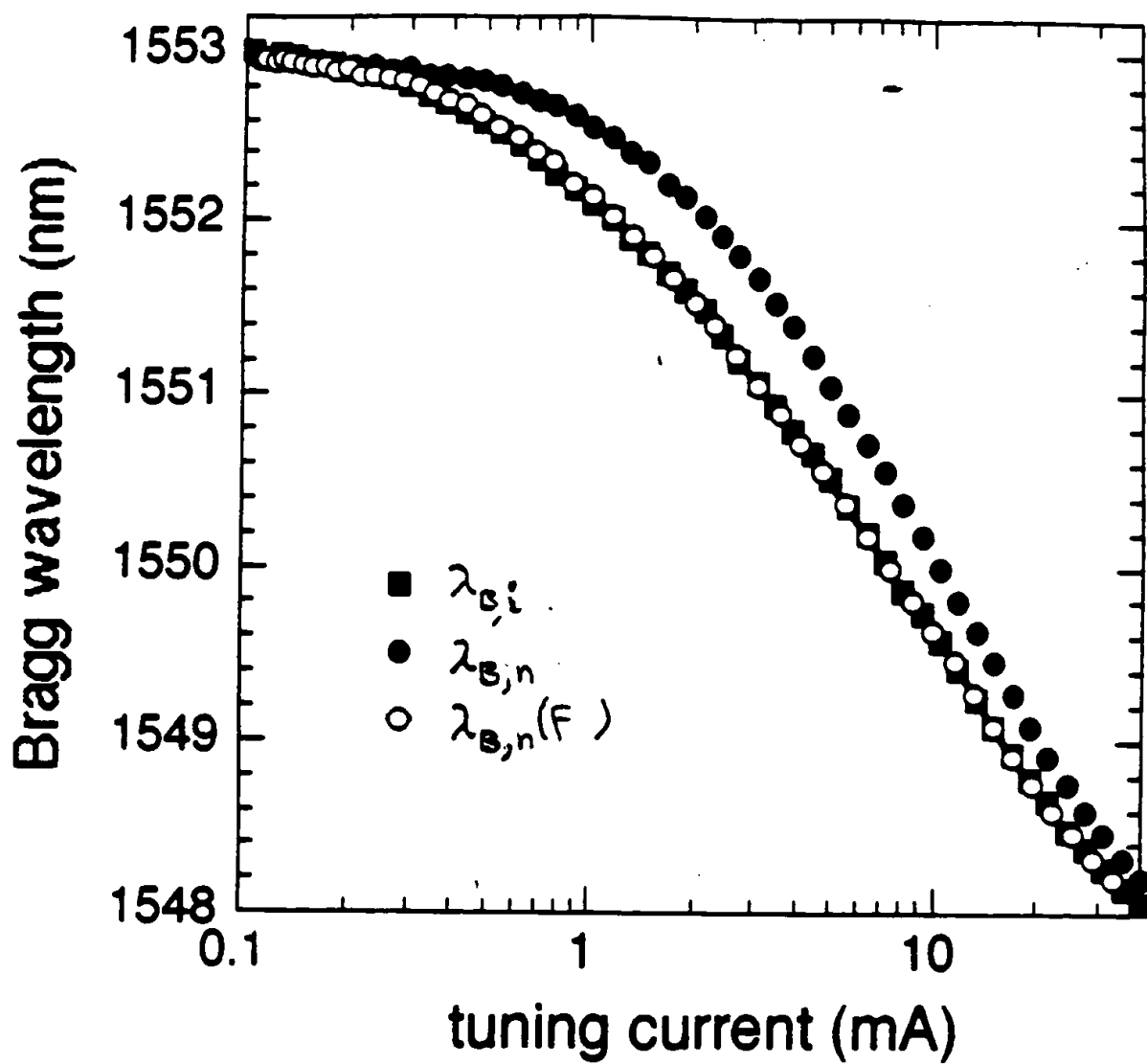


Fig. 7

FIG. 8A



00220" 52383360

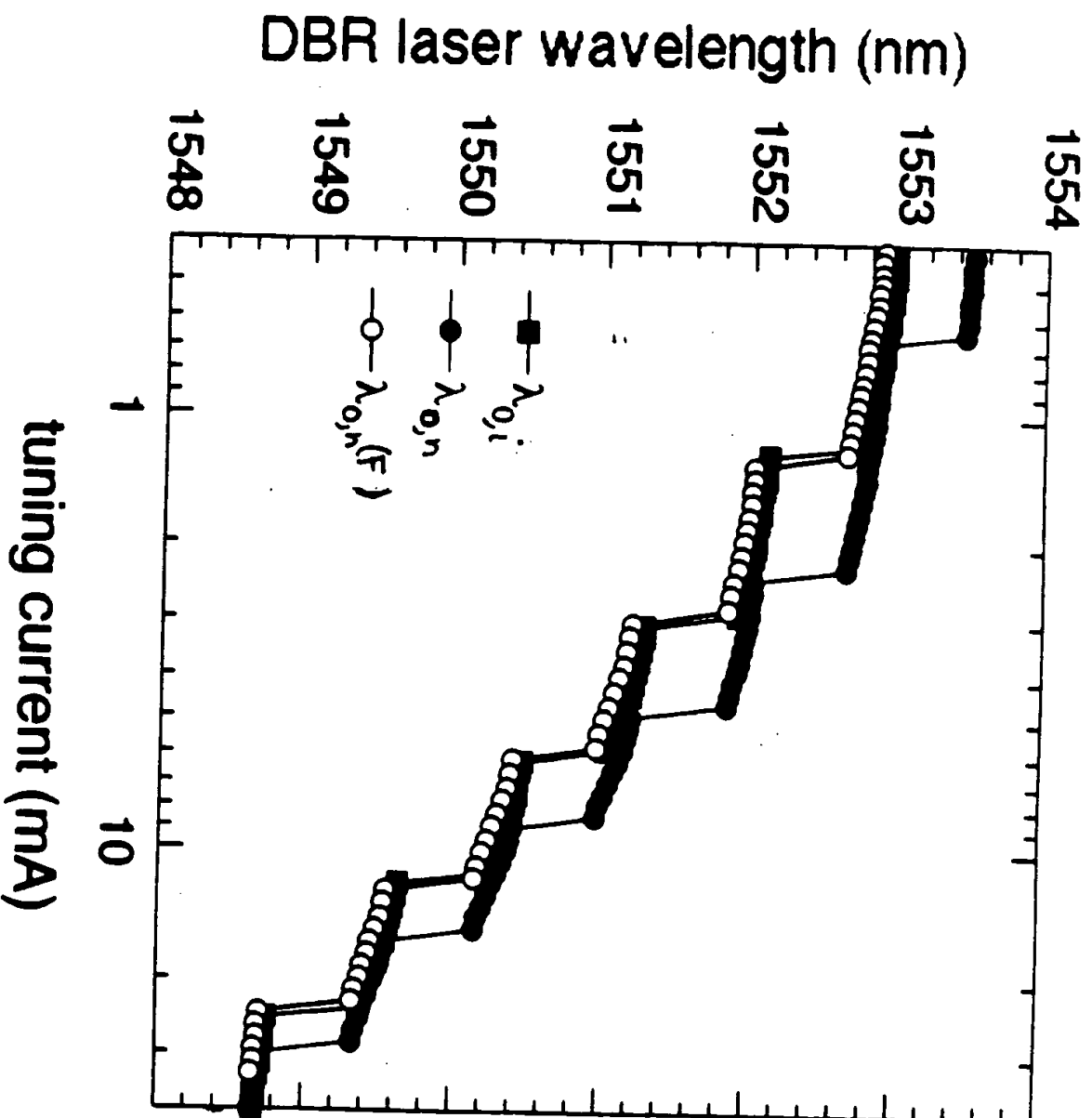
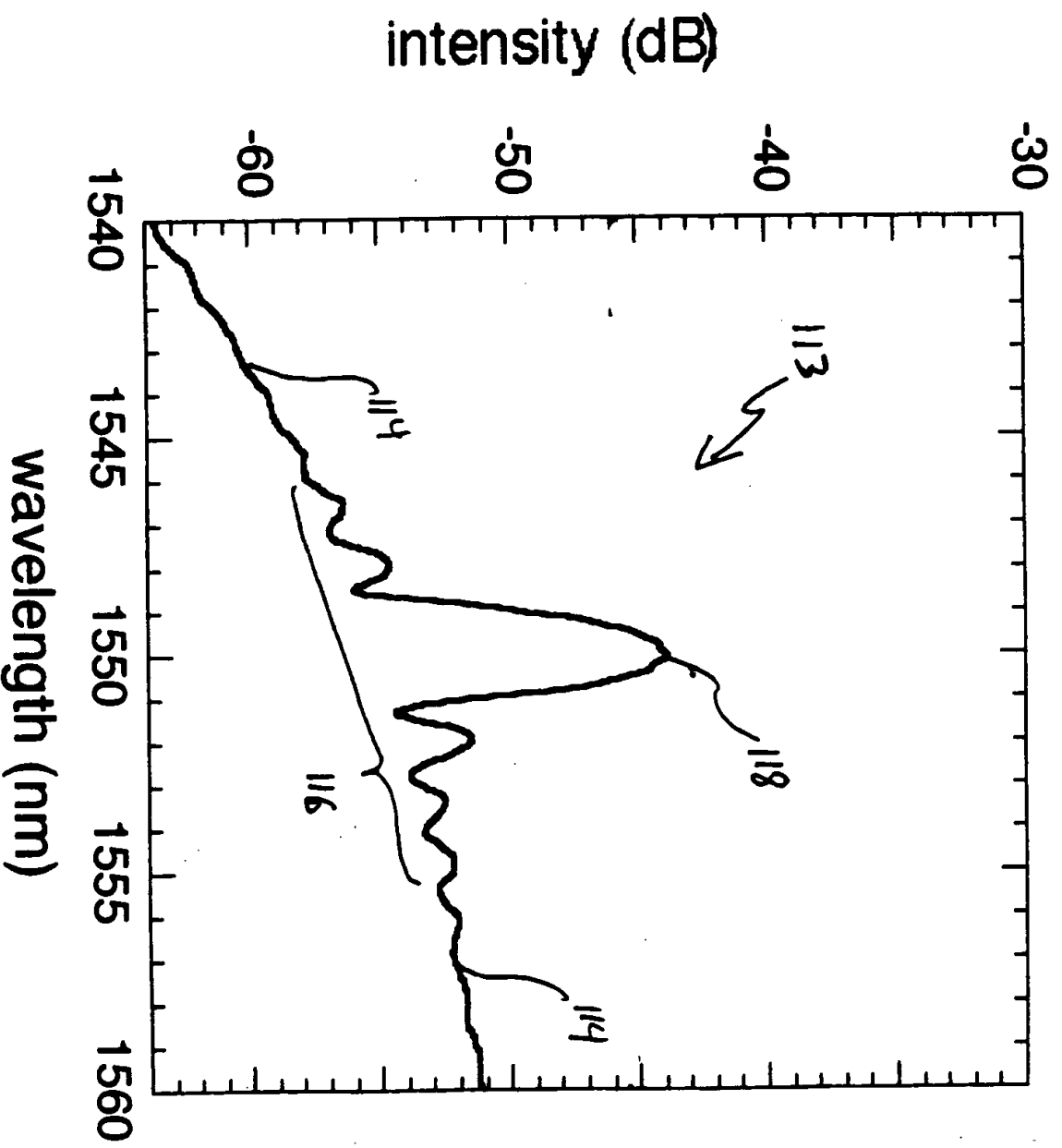


FIG. 8B

0966375.092200

F16.10



09568675.002200

F16. 13

Manufacture tunable DBR laser

Measure spectral reflectivity of laser's tunable Bragg grating for plurality of values of tuning current

161

Operate laser for selected burn-in period

162

Measure spectral reflectivity of laser's tunable Bragg grating for plurality of tuning currents

164

Evaluate age-dependence of selected property of function relating tuning current and Bragg wavelength from measured spectral reflectivities and currents

166

Does age-dependence of property fall in range for qualified laser?

158

Yes

Qualify laser

170

No

Disqualify laser

172

160

00559575 002200

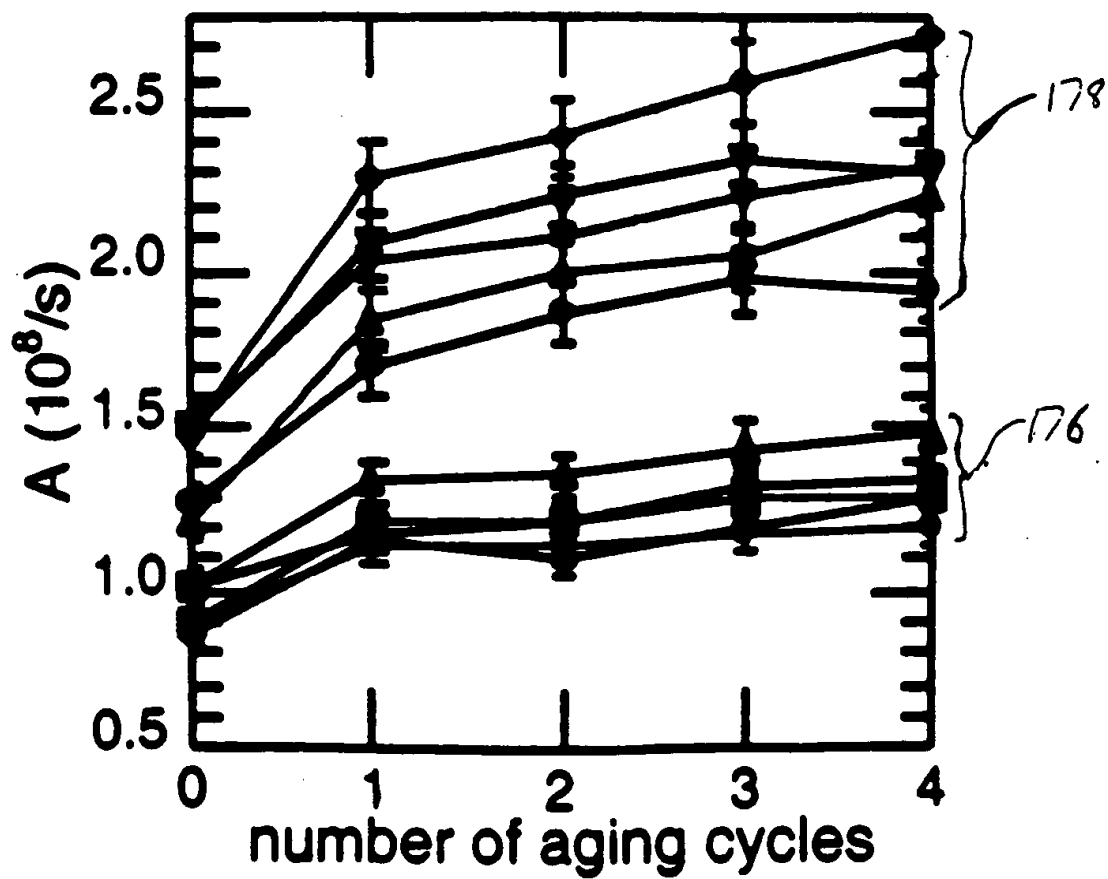


FIG. 14

FIG. 15

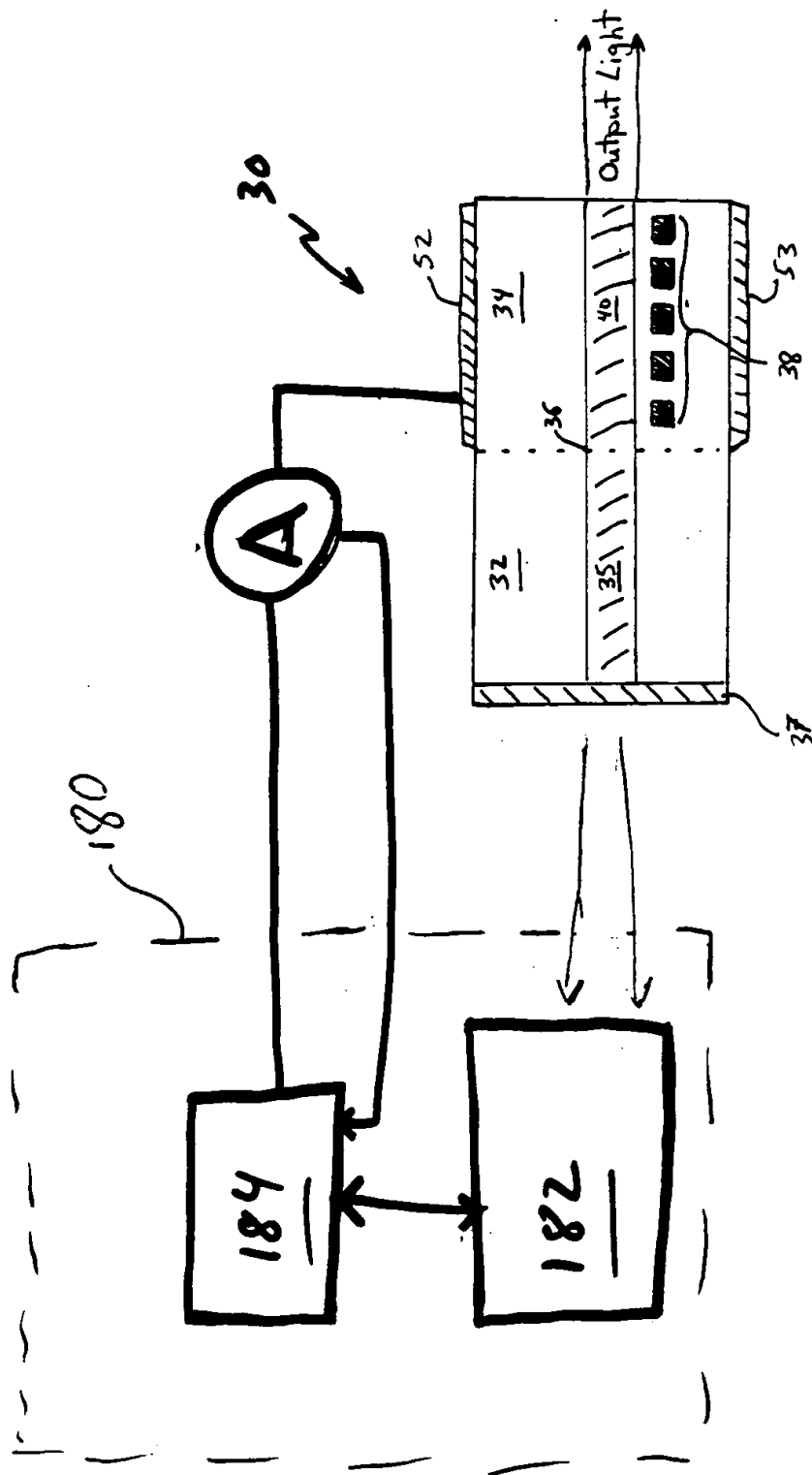


FIG. 2

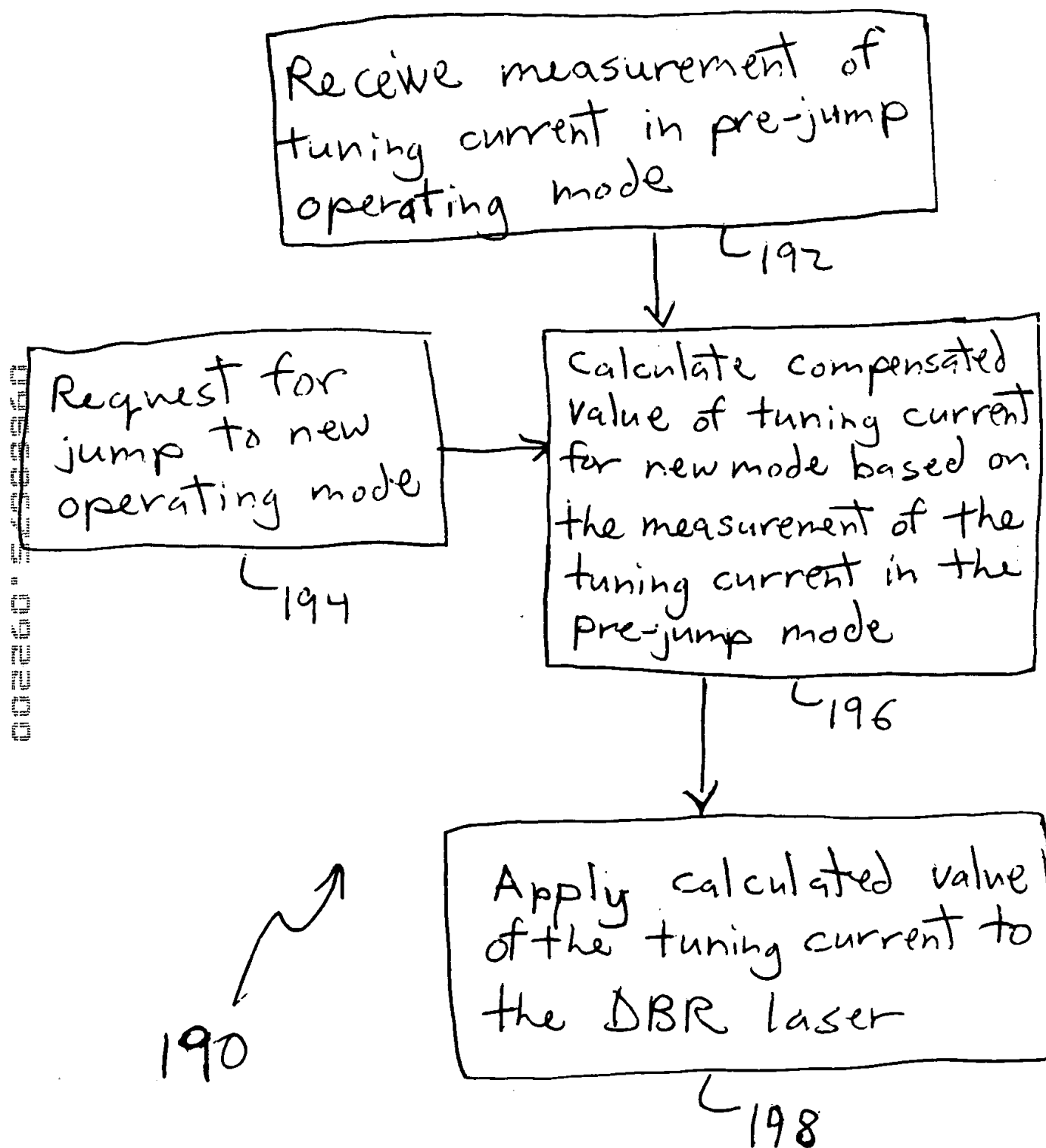


FIG. 16